

DATA SHEET

● DEVICE NUMBER : BL-R4530A-T

SHEET DATE	1	2									CONTENTS
2005.10.25	1.0	1.0									Original Released

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BRIGHT LED ELECTRONICS CORP.

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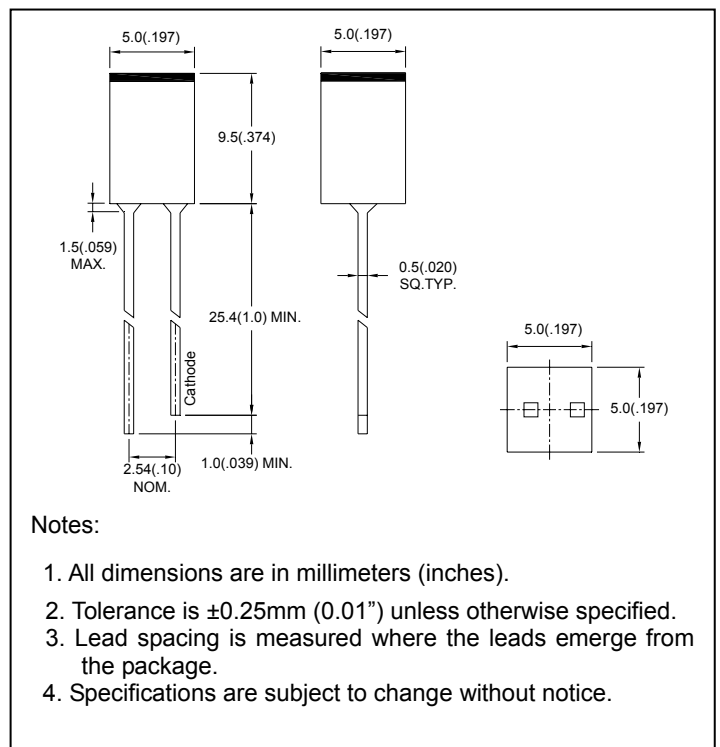
● Features:

1. Chip material: GaAsP/Gap
2. Emitted color :Hi-Eff Red
3. Lens Appearance : Red Diffused
4. Low power consumption.
5. Most suitable for use like level indicator.
6. Excellent uniformity of light emittance.
7. Long life solid state reliability.
8. Compatible.
9. This product don't contained restriction substance, compliance ROHS standard.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Package Dimensions:



● Absolute maximum ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Power Dissipation	P_d	80	mW
Forward Current	I_F	30	mA
Peak Forward Current ^{*1}	I_{FP}	150	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	$-40^\circ\text{C} \sim 80^\circ\text{C}$	
Storage Temperature	T_{stg}	$-40^\circ\text{C} \sim 85^\circ\text{C}$	
Soldering Temperature	T_{sol}	260°C (for 5 seconds)	

^{*1}Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

Electrical and optical characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	-	2.0	2.6	V
Luminous Intensity	I_v	$I_F=20\text{mA}$	-	9	-	mcd
Reverse Current	I_R	$V_R=5\text{V}$	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20\text{mA}$	-	640	-	nm
Dominant Wave Length	λ_d	$I_F=20\text{mA}$	617	-	638	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20\text{mA}$	-	40	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	150	-	deg

Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

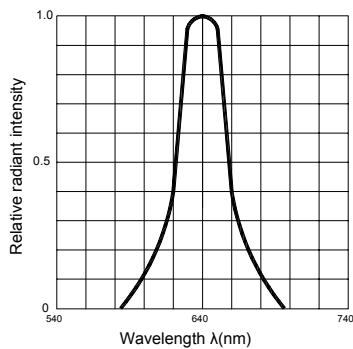


Fig.2 Forward current derating curve vs. Ambient temperature

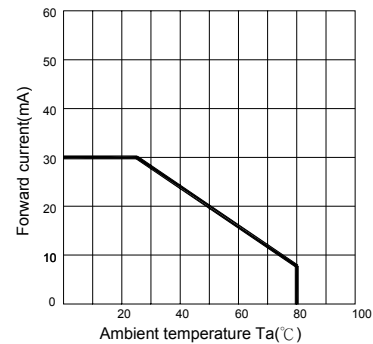


Fig.3 Forward current vs. Forward voltage

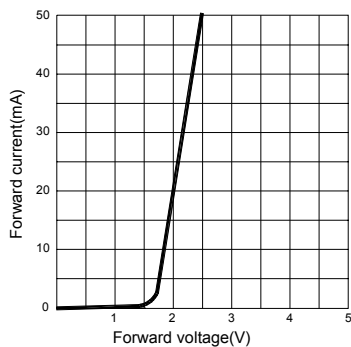


Fig.4 Relative luminous intensity vs. Ambient temperature

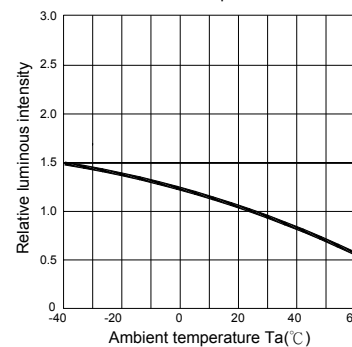


Fig.5 Relative luminous intensity vs. Forward current

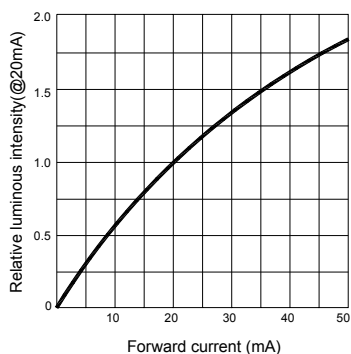


Fig.6 Radiation diagram

